

1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(3, 8) \text{ and } (4, 2)$$

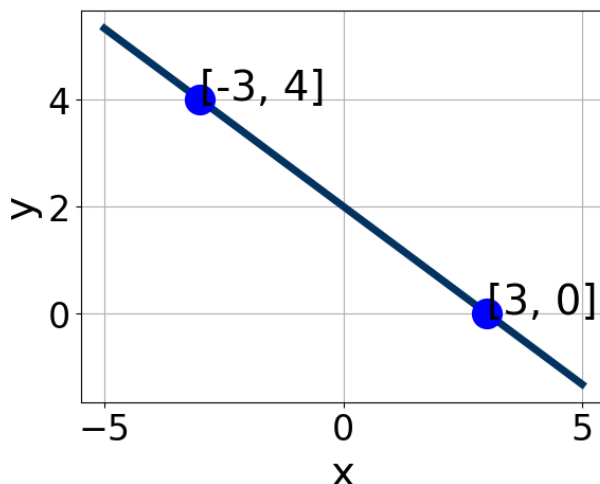
- A. $m \in [-11, -5]$ $b \in [26, 27]$
 - B. $m \in [3, 9]$ $b \in [-24, -21]$
 - C. $m \in [-11, -5]$ $b \in [-10, -1]$
 - D. $m \in [-11, -5]$ $b \in [-26, -23]$
 - E. $m \in [-11, -5]$ $b \in [4, 8]$
-

2. Solve the equation below. Then, choose the interval that contains the solution.

$$-14(2x - 19) = -10(17x - 16)$$

- A. $x \in [-3.01, -2.31]$
 - B. $x \in [2.85, 3.54]$
 - C. $x \in [2.03, 2.61]$
 - D. $x \in [-0.76, -0.56]$
 - E. There are no real solutions.
-

3. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [1.75, 2.91]$, $B \in [-3.69, -2.65]$, and $C \in [-6.6, -2.8]$
 B. $A \in [0.41, 1.52]$, $B \in [0.76, 1.89]$, and $C \in [1, 3.1]$
 C. $A \in [0.41, 1.52]$, $B \in [-1.97, -0.93]$, and $C \in [-3.9, 0.2]$
 D. $A \in [1.75, 2.91]$, $B \in [2.11, 4.64]$, and $C \in [5.6, 7.5]$
 E. $A \in [-2.7, -0.81]$, $B \in [-3.69, -2.65]$, and $C \in [-6.6, -2.8]$

4. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $8x - 5y = 12$ and passing through the point $(-6, -5)$.

- A. $m \in [1.37, 1.62]$ $b \in [-7.6, -3.6]$
 B. $m \in [0.41, 0.7]$ $b \in [2.6, 5.6]$
 C. $m \in [-1.74, -0.49]$ $b \in [-18.6, -11.6]$
 D. $m \in [1.37, 1.62]$ $b \in [0, 2]$
 E. $m \in [1.37, 1.62]$ $b \in [2.6, 5.6]$

5. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-7x + 4}{3} - \frac{-6x - 5}{2} = \frac{5x + 7}{5}$$

- A. $x \in [4.5, 6.5]$
 - B. $x \in [-9.6, -6.7]$
 - C. $x \in [-1.4, 1.5]$
 - D. $x \in [6.6, 7.6]$
 - E. There are no real solutions.
-

6. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $4x - 7y = 14$ and passing through the point $(-8, -6)$.

- A. $m \in [-0.02, 0.95]$ $b \in [1.67, 2.54]$
 - B. $m \in [1.64, 2.32]$ $b \in [-1.62, -1.29]$
 - C. $m \in [-0.02, 0.95]$ $b \in [-0.04, 1.6]$
 - D. $m \in [-0.02, 0.95]$ $b \in [-1.62, -1.29]$
 - E. $m \in [-1.06, 0.39]$ $b \in [-11.81, -8.98]$
-

7. Solve the equation below. Then, choose the interval that contains the solution.

$$-17(-16x - 3) = -14(-7x - 4)$$

- A. $x \in [-0.22, 0.15]$
 - B. $x \in [-0.33, -0.2]$
 - C. $x \in [-0.79, -0.61]$
 - D. $x \in [0.34, 0.76]$
 - E. There are no real solutions.
-

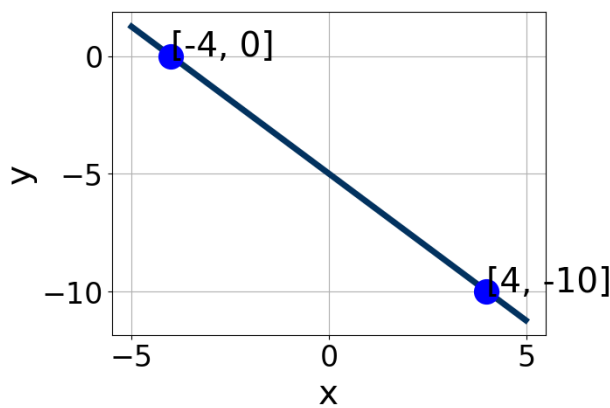
8. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals

that contain m and b .

$$(-9, 6) \text{ and } (-5, -4)$$

- A. $m \in [1.5, 5.5]$ $b \in [8.2, 9.8]$
- B. $m \in [-6.5, -1.5]$ $b \in [0.9, 1.2]$
- C. $m \in [-6.5, -1.5]$ $b \in [-18.8, -14.7]$
- D. $m \in [-6.5, -1.5]$ $b \in [16, 16.9]$
- E. $m \in [-6.5, -1.5]$ $b \in [13.6, 15.9]$

9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-1.3, 3.1]$, $B \in [-0.06, 1.87]$, and $C \in [-6, 1]$
- B. $A \in [-1.3, 3.1]$, $B \in [-1.57, -0.25]$, and $C \in [4, 6]$
- C. $A \in [3.1, 8.7]$, $B \in [3.44, 4.03]$, and $C \in [-21, -19]$
- D. $A \in [-5.6, -4.8]$, $B \in [-4.51, -2.73]$, and $C \in [12, 24]$
- E. $A \in [3.1, 8.7]$, $B \in [-4.51, -2.73]$, and $C \in [12, 24]$

10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x + 6}{3} - \frac{4x + 6}{7} = \frac{3x + 4}{8}$$

- A. $x \in [-2.8, -1.6]$
 - B. $x \in [9.8, 10.6]$
 - C. $x \in [-6.2, -5.6]$
 - D. $x \in [-0.1, 2]$
 - E. There are no real solutions.
-